

Study of Intelligent Human Machine Interface based on Driving Simulator

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Abstract

In this project, we examine how driving task performance metrics are affected when drivers have to complete certain typical tasks associated with the in-vehicle infotainment system and peripheral devices. Detailed experiment procedures are designed and data are collected through a driving simulator. The collected data are analyzed to study how the task completion time and quality of driving are affected by the control that is required to complete the in-vehicle secondary tasks.